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$R^1$  is  $-(CH_2)_a-CO_2H$ , an ester or salt thereof; or  $-(CH_2)_a-CONH_2$ ;

L is H, -NH<sub>2</sub>, -NH-(C=O)-(CH<sub>2</sub>)<sub>e</sub>-(C=O)-CH<sub>2</sub>-, -S(=O)<sub>2</sub>-HC=CH<sub>2</sub>-, -SS-, -C(=O)O- or a carbohydrate residue;

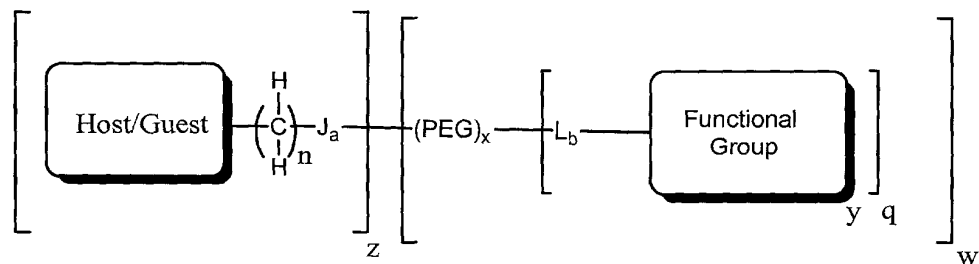
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- d ranges from 0 to 6;  
e ranges from 1 to 6;  
n ranges from 0 to 6;  
y is 0 or 1; and  
5 x is 0 or 1.

2. A compound of claim 1, wherein the host/guest is selected from the group of adamantyl, naphthyl, cholesterol, cyclodextrin, and mixtures thereof.

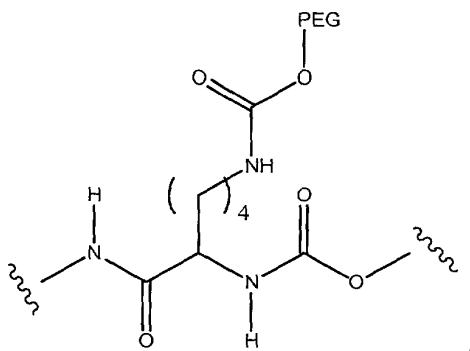
10 3. A compound of the formula:



wherein

J is  $-\text{NH}-$ ,  $-\text{C}(=\text{O})\text{NH}-(\text{CH}_2)_d-$ ,  $-\text{NH}-\text{C}(=\text{O})-(\text{CH}_2)_d-$ ,  $-\text{CH}_2\text{SS}-$ ,  $-\text{C}(=\text{O})\text{O}-$ ,  $-(\text{CH}_2)_e-\text{O}-\text{P}(=\text{O})(\text{O}-(\text{CH}_2)_e-\text{Y})\text{O}-$ ,

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a peptide or polypeptide residue, or

$-\text{NH}-(\text{C}=\text{O})-\text{CH}(\text{R}^1)-\text{NH}-(\text{C}=\text{O})-\text{CH}(\text{R}^1)-\text{NH}-$ ;

20 Y is an additional host/guest functionality;

R<sup>1</sup> is -(CH<sub>2</sub>)<sub>a</sub>-CO<sub>2</sub>H, an ester or salt thereof; or -(CH<sub>2</sub>)<sub>a</sub>-CONH<sub>2</sub>;

PEG is -O(CH<sub>2</sub>CH<sub>2</sub>O)<sub>z</sub>-, where z varies from 2 to 500;

L is H, -NH<sub>2</sub>, -NH-(C=O)-(CH<sub>2</sub>)<sub>e</sub>-(C=O)-CH<sub>2</sub>-, -S(=O)<sub>2</sub>-HC=CH<sub>2</sub>-, -SS-, -C(=O)O- or a carbohydrate residue;

5 a is 0 or 1;

b is 0 or 1;

d ranges from 0 to 6;

e ranges from 1 to 6;

n ranges from 0 to 6;

10 q ranges from 1 to 5;

w ranges from 1 to 5;

y is 0 or 1;

x is 0 or 1; and

z ranges from 1 to 5.

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4. A compound of claim 3, wherein the host/guest is selected from the group of adamantyl, naphthyl, cholesterol, cyclodextrin, and mixtures thereof.

5. A composition comprising a particulate composite of a cyclodextrin  
20 containing polymer and a therapeutic agent and an inclusion complex of said cyclodextrin polymer and a complexing agent comprising an inclusion guest is a compound of claim 1.

6. A composition of claim 5, wherein said therapeutic agent is selected from  
25 the group consisting of an antibiotic, a steroid, a polynucleotide, small molecule pharmaceutical, a virus, a plasmid, a peptide, a peptide fragment, a chelating agent, a biologically active macromolecule, and mixtures thereof.

7. A composition of claim 6, wherein said therapeutic agent is a  
30 polynucleotide.

8. A composition comprising a particulate composite of a cyclodextrin  
containing polymer and a therapeutic agent and an inclusion complex of said  
cyclodextrin polymer and a complexing agent comprising an inclusion guest is a  
5 compound of claim 3.

9. A composition of claim 8, wherein said therapeutic agent is selected from  
the group consisting of an antibiotic, a steroid, a polynucleotide, small molecule  
pharmaceutical, a viruse, a plasmid, a peptide, a peptide fragment, a chelating  
10 agent, a biologically active macromolecule, and mixtures thereof.

10. A composition of claim 9, wherein said therapeutic agent is a  
polynucleotide.